



# Preliminary Assessment

SITE NAME MOTT METALLURGICAL CORP.

TOWN PLAINVILLE NUMBER 110

CONNECTICUT



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 1 - SITE INFORMATION AND ASSESSMENT

CTD990524193

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
CT	CTD000100739

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) <b>MOTT METALLURGICAL</b>		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER <b>SPRING LANE</b>				
03 CITY <b>PLAINVILLE 110</b>		04 STATE <b>CT</b>	05 ZIP CODE <b>06062</b>	06 COUNTY <b>HARTFORD</b>	07 COUNTY CODE <b>003</b>	08 CONG. DIST. <b>6</b>
09 COORDINATES LATITUDE <b>41° 41' 44.0"</b> LONGITUDE <b>-72° 45' -0.0"</b>		TEL. <b>203-677-7311</b>				
10 DIRECTIONS TO SITE (Starting from nearest public road) <b>FROM HARTFORD WEST ON RT 84 TO EXIT 38, WEST ON RT. 6 2.6 MI. (PAST RT. 10) LEFT ON SPRING LANE RD</b>						

III. RESPONSIBLE PARTIES

01 OWNER (If known) <b>STOCKHOLDER LAMBERT H. MOTT II, PRES.; PRINCIPAL</b>		02 STREET (Business, mailing, residential)				
03 CITY		04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER <b>( )</b>		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)				
09 CITY		10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER <b>( )</b>		
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER (Specify) <input type="checkbox"/> G. UNKNOWN						
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001- DATE RECEIVED: <b>7/17/80</b> MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 105 (2)) DATE RECEIVED: MONTH DAY YEAR <input type="checkbox"/> C. NONE <input checked="" type="checkbox"/> GENERATOR						

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <b>4/9/86</b> <input checked="" type="checkbox"/> YES DATE <b>5/13/75</b> MONTH DAY YEAR <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER (Specify)	
CONTRACTOR NAME(S):			
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION <b>1968</b> BEGINNING YEAR <b>ENDING YEAR</b> <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED <b>NITRIC ACID, LIQUID HYDROGEN, LIQUID NITROGEN, ANHYDROUS AMMONIA, MEK, ACETONE, TOLUENE, TRICHLOR, CR<sup>+3</sup>, Fe, N<sub>2</sub>, Zn, Al, Cu, CN, TC, Au, Ag CAUSTICS (NaOH)</b>			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION <b>CONTAMINATION OF AQUIFER HAS BEEN DOCUMENTED, PAST DISPOSAL BY MOTT OF INDUSTRIAL WASTES TO GROUND LIKELY CONTRIBUTED. THIS IS WATER SUPPLY FOR 223,000 POP. MOTT IS DIRECTLY ADJACENT TO TOWN WELLS.</b>			

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)			
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VI. INFORMATION AVAILABLE FROM

01 CONTACT <b>DAVID LAURIE, SAFETY ENGINEER</b>		02 OF (Agency/Organization) <b>MOTT METALLURGICAL</b>		03 TELEPHONE NUMBER <b>(203) 677-7311</b>	
04 PERSON RESPONSIBLE FOR ASSESSMENT <b>ANN BURCROFF</b>		05 AGENCY <b>HAZARDOUS WASTE</b>	06 ORGANIZATION <b>DEPT. ENVIR. PROT</b>	07 TELEPHONE NUMBER <b>(203) 566-8844</b>	08 DATE <b>4, 22, 86</b> MONTH DAY YEAR



**POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT  
PART 2 - WASTE INFORMATION**

## I. IDENTIFICATION

01 STATE	02 SITE NUMBER
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~~07 CTD 001130739~~

## II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)	02 WASTE QUANTITY AT SITE <small>(Measurements of waste quantities must be independent)</small>	03 WASTE CHARACTERISTICS (Check all that apply)
<input type="checkbox"/> A. SOLID <input type="checkbox"/> B. POWDER, FINES <input type="checkbox"/> C. SLUDGE <input type="checkbox"/> D. OTHER _____ <small>(Specify)</small>	<input type="checkbox"/> E. SLURRY <input type="checkbox"/> F. LIQUID <input type="checkbox"/> G. GAS  TONS _____ CUBIC YARDS <u>UNKNOWN</u> #NO. OF DRUMS _____	<input type="checkbox"/> A. TOXIC <input type="checkbox"/> B. CORROSIVE <input type="checkbox"/> C. RADIOACTIVE <input type="checkbox"/> D. PERSISTENT  <input type="checkbox"/> E. SOLUBLE <input type="checkbox"/> F. INFECTIOUS <input type="checkbox"/> G. FLAMMABLE <input type="checkbox"/> H. IGNITABLE  <input type="checkbox"/> I. HIGHLY VOLATILE <input type="checkbox"/> J. EXPLOSIVE <input type="checkbox"/> K. REACTIVE <input type="checkbox"/> L. INCOMPATIBLE <input type="checkbox"/> M. NOT APPLICABLE

### III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	Q1 GROSS AMOUNT	Q2 UNIT OF MEASURE	Q3 COMMENTS	IND. WAS TO DRY W IN 197
SLU	SLUDGE			TETRACHLOROETHYLENE	
OLW	OILY WASTE			TRICHLOROETHYLENE, BENZENE, TOLUENE	
SOL	SOLVENTS	65	gal/mo	to Dry Well in Past	
PSD	PESTICIDES				
(OCC)	OTHER ORGANIC CHEMICALS	UNKNOWN		CN TO DRYWELL IN PAST	
IOC	INORGANIC CHEMICALS				
(ACD)	ACIDS			ELECTRO ACID BATHS (NITRIC) to Dry Well in PA	
(BAS)	BASES	100	Lb/yr	NaOH For DEBURRING	"
(MES)	HEAVY METALS			Ni, Ti, Ag, Au, Cu, Cr, Cd, Al	"

#### IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

[illegible]

## V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	Q1 FEEDSTOCK NAME	Q2 GAS NUMBER	CATEGORY	Q1 FEEDSTOCK NAME	Q2 GAS NUMBER
FDS	LIQUID HYDROGEN		FDS	ALUMINUM	
FDS	NITROGEN		FDS -	NICKEL	
FDS	ANHYDROUS AMMONIA		FDS	TITANIUM	-
FDS	NITRIC ACID		FDS -	GOLD	

**VI. SOURCES OF INFORMATION** (Cite specific references; e.g., State files, sample analysis reports)

D.E.P. FILES - WATER COMPLIANCE

SILVER

203 - 566 - 2719

CTD 980524/93



POTENTIAL HAZARDOUS WASTE SITE  
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

03 SITE CHARACTERIZATION

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input type="checkbox"/> A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>~23,000</u> GA CLASSIFICATION PLAINVILLE WATER CO; JOHNSON AV WELLS FARMINGTON INDUSTRIAL PARK WELLS (TUNKIS COMMUNITY COLLEGE + 220 BUSINESSES)	02 <input type="checkbox"/> OBSERVED (DATE: <u>1980+</u> ) 04 NARRATIVE DESCRIPTION HYDROCARBON CONTAMINATION ~17,000 POPULATION 5,700 23,700 TOTAL POPULATION #12, 13, 14, 15, 16, 19, 20, 21, 24, 25, 34	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>UNKNOWN</u> SCOTT SWAMP BROOK IS DIRECTLY BEHIND MOTT	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: _____ UNKNOWN	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: _____ UNKNOWN	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: _____ UNKNOWN	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: <u>UNKNOWN</u> (Area) LIKELY DUE TO PAST DISPOSAL OF INDUSTRIAL WASTES TO DAY WELL #18, 21, 22, 24, 25	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: <u>~23,000</u> LIKELY DUE TO PAST DISPOSAL OF WASTES - WATER SUPPLY IS CONTAMINATED - SEE LAB REPORTS #10, 11, 17, 19, 20, 21, 24, 25	02 <input type="checkbox"/> OBSERVED (DATE: <u>1980+</u> ) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: _____ UNKNOWN	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: <u>~23,000</u> VIA DRINKING WATER - SEE ABOVE	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED

CT0980524193



# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

## I. IDENTIFICATION

01 STATE 02 SITE NUMBER

01 CT 02 0001130131

## PART I: DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

### II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ 03 DAMAGE TO FLORA 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

LINES

NOT OBVIOUS IN 1986, MUCH FRESH DIGGING FOR SEWER &amp; WATER

01 ☐ 03 DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION (Include name(s) of species)

UNKNOWN

01 ☐ 03 CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ 03 UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
(Spills/runoff/standing liquids/leaking drums)  
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION

NOT IN 1986, BUT IN PAST - #21

01 ☐ 03 DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE: 1980 →) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

CONTAMINATED AQUIFER

01 ☐ 03 CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ 03 ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
04 NARRATIVE DESCRIPTION

IN PAST

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 223,000

### IV. COMMENTS:

### V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

WATER COMPLIANCE FILES, D.E.P. 203-566-2403  
FARMINGTON INDUSTRIAL PARK, Box 748, CHESHIRE, CT. 06410 203-271-0353  
RAY GREENWOOD, WELLS

Preliminary Assessment  
Mott Metallurgical Corp.  
Plainville, Ct.  
CTD001150739

April 22, 1986

This company, on site since 1968 manufacturing sintered metallic filters, hires 75 employees. Lambert H. Mott, 3rd is the principal stockholder and President of the company and David Laurie is safety engineer. Mott Metallurgical is located in the Farmington Industrial Park (F.I.P.) on 6 1/2 acres of land and is bounded on the North by American Cam, on the East by the well field of F.I.P., on the South by a small hill, then Northwest Drive and on the West by Spring Lane. Wasley, Inc. is across Spring Lane from Mott.

In the fall of 1985 Mott switched water sources from the F.I.P. Water Co. to the Plainville water company, although both well fields are in the same aquifer and are contaminated with hydrocarbons. #10, #19, #20. Mott was recently connected to the Farmington Sanitary Sewer.

Scott Swamp Brook, <500 ft. West of the building runs through the Farmington Industrial Park, emptying into the Pequabuck River which flows northerly to the Farmington River. The drainage basin is #4315, Connecticut River Basin. Bedrock in this area is at app. 100 ft. and consists of micaceous, feldspathic to arkosic interbedded coarse to fine-grained sandstone, siltstone and silty shale, which may exceed 3000 ft. Surficial material is composed of a kame terrace deposit of fine grained cyclic sediment. Groundwater is GA, and within a short distance of Mott Metallurgical are two Johnson Ave wells, (Plainville water supply), and four Farmington Industrial Park Wells #3, which serve Tunxis Community College and about twenty businesses in the Industrial Park itself. The Mott Metallurgical site is the prime recharge zone for the deep gravel deposits from which is drawn the Plainville water supply. #34.

When the company began in 1968 the disposal method for industrial wastes was to a dry well and leaching field Southwest of the building. In 1970 app. 465 gal/day of wastes containing nitric acid, chlorides, phosphates and other chemicals went this route.#8 In 1975, a D.E.P. water compliance inspection report showed 1,1,1 trichloroethane, methyl ethyl ketone, acetone, in addition to the acids, going to the ground.#9 In June of 1975 the Plainville water supply was found to be contaminated with hydrocarbons, Mott's leaching pits were tested and the same compounds found there. Mott Metallurgical Corp. was informed of this situation and told to contain all solvents and have them hauled away by a licensed hauler.#12 Well #3 was taken out of service and pumped to waste to try to cleanse it of the contamination and to protect Well #6 and Mott was referred to the Attorney General for discharging without a permit since 1967. Mott was given an Order #1990 to do a hydrogeologic investigation to determine the extent of groundwater pollution resulting from the discharge of chlorinated hydrocarbons, solvents, alcohol and other chemicals to the ground, and to remove all contaminated wastes from the leaching pits. The hydrogeologic study was not done, so Mott was again referred to the AG's office in January, 1976. In March, 1976, this case was removed from the AG's office because Mott had obtained a permit and ceased disposing to the ground. I could find nothing in the files that indicated that the leaching pit had been cleaned out or that a hydrogeologic analysis had been done, although two 500 gal. holding tanks were installed in the location of the leach field. In 1980, the Farmington Industrial Park wells were found to be contaminated and the question of source of pollution and liability once again raised. In 1982, there was a meeting of the companies which had past on-site disposal and the state suggested they cooperate on a ground water study. Minges Assoc. submitted a proposal for this #40, but the study was never done.

The Johnson Av. water supply wells (in addition to the F.I.P. wells) are still in use with the highest level of 1,1,1 trichloroethane recorded at 101 ug/l in October 1983, the highest level of trichloroethylene at 6.5 ug/l in July, 1983, and the highest level of tetrachloroethylene at 19.0 ug/l in June, 1983. See P.A. for Connecticut Spring for complete well data.

This industrial area has been polluted by many small industries and businesses in the past and yet the use of the affected aquifer continues. As the population potentially affected is significant in number, I think further study of the entire area of Farmington Industrial Park is warranted.

#### Reference Documents

1. Road map
2. Topo map
3. Water Supply map
4. Farmington Industrial Park well data
5. F.I.P. map
6. Mott Metallurgical site map
7. Letter from Natural Resources data bank
8. 1970 D.E.P. water compliance inspection report, sketch map
9. 1975 " " " " " , sample analysis
10. Plainville Water Co. and F.I.P. well lab analysis
11. Letter from Plainville Water Co. concerning Mott's ground disposal
12. Letter to Mott re: contamination of wells; containment of wastes
13. Letter to Plainville Water Co. from D.E.P.
14. Letters to Mott & Attorney General concerning unpermitted discharge
15. Letter to A.G. concerning compliance by Mott; withholding action
16. Letter from Mott on handling of wastes



17. Letter from Health Commissioner to Plainville Water Co, cease use
18. Lab analysis of Mott dry well
19. Letter from Plainville Water Co. - pumping out contaminated water
20. Lab analysis of Plainville Water Co. wells
21. D.E.P. letter to Plainville Health Dept. re: Mott Metallurgical
22. Lab analysis from Mott dry well
23. D.E.P. order #1985 to Mott Metallurgical
24. Letter from Mr. Mott to Dept of Health
25. Letter from Environmental Health Dept. to Water Compliance
26. D.E.P. Water Compliance Permit CTD0022276
27. 1976 Discharge permit
28. Letters concerning non-compliance to Order 1990.
29. Analysis of Mott's waste stream
30. Letter from Director of Water Compliances to AG, removing case
31. Letter from consulting engineers about test holes
32. Lab analysis from dry well
33. Letter from Mr Mott about test holes
34. Hydrology analysis
35. Letters revoking Order 1990, withdrawing case from AG's office
36. 1980 Water Compliance Inspection report
37. Survey of F.I.P. industries
38. Hartford Courant article, letter from Paul Marin
39. 1982 List of companies in F.I.P. attending meeting about well pollution
40. 1983 Minges Assoc. proposal for groundwater study